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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/014,898	12/14/2001	George A. Traubenberg	13202.00352	4216
27160 7	590 01/18/2006	01/18/2006 EXAMINER		INER
KATTEN MUCHIN ROSENMAN LLP 525 WEST MONROE STREET CHICAGO, IL 60661-3693			LITHGOW, THOMAS M	
			ART UNIT	PAPER NUMBER
CHICAGO, II	, 00001-3023		1724	
			DATE MAILED: 01/18/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/014,898	TRAUBENBERG ET AL.			
Office Action Summary	Examiner	Art Unit			
	Thomas M. Lithgow	1724			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	I. lely filed the mailing date of this communication. O (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on <u>21 Octoor</u> This action is FINAL . 2b) ☑ This Since this application is in condition for allowant closed in accordance with the practice under Expression.	action is non-final. ace except for formal matters, pro				
Disposition of Claims					
4) ⊠ Claim(s) <u>1,6-10,16-22,25-33,35 and 37-47</u> is/ar 4a) Of the above claim(s) <u>none</u> is/are withdrawr 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1,6,7,9,10,16-19,21,22,25-28,30,33,38</u> 7) ⊠ Claim(s) <u>8,20,29,31 and 32</u> is/are objected to. 8) □ Claim(s) are subject to restriction and/or	n from consideration. 5 and 37-47 is/are rejected.				
Application Papers					
9) The specification is objected to by the Examiner 10) The drawing(s) filed on 22 April 2002 is/are: a) Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Examiner	☑ accepted or b)☐ objected to b drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received. **M. Futher					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary (Paper No(s)/Mail Da	IOMAS M. LITHGOW RIMARY EXAMINER GROUP 17:00 (PTO-413)			

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112:

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C.

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 33, 35 and 37-47 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The term "concentric" is repeatedly employed in claim 33. However there is no specific disclosure which shows any "concentric" axis as recited in the claim. It is noted that "concentric" means to have a center in common as for example in "concentric circles" each circle has a common center with differing radii. It appears the claim would be clear if the term "concentric" is simply deleted. Clarification is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35
 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

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(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1,9-10, 21, 22, 25, 27, 33, 35, 37-43 and 47 are rejected under 35 U.S.C. 102(b) as being anticipated by Wood (US 4367410). Wood '410 discloses an apparatus for treating waste water which is considered a module with a UV tube assembly 40 being supported by opposed first and second side plates 24 and 26 along with top and bottom plates 28, 30 being connected to larger transverse baffles 14 and 18. As shown in fig. 1,2,4 and 5 there are a pair of seals along the outer wall of baffles 14 and 18 as well as seals along the underside of bottom plate 30 (fig. 5). As the baffles 14 and 18 are considered the "third support member" and the "seal" seals between the module and a "second surface" (the open channel 12) then it is clear claim 1 reads on the Wood '410 disclosure. In regard to claim 22, the baffles 14 and 18 were placed into the channel 12 at some point and as such they are considered "movable". It is noted that "movable" is a functional limitation which is the same as asserting an element is capable of that function. In regard to claim 33, the confining element is the baffle 14 and/or 18. The Wood '410 device clearly has a center-to-center distance between adjacent UV tubes (radiation source). Further, there is a distance between the UV tubes and the baffle. It is clear that the ratio of

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these two distances, both unspecified in Wood '410, is a fraction which can be considered "predetermined".

- 3. Claims 22, 25, 26, 33, 35, 37-39 and 45 are rejected under 35 U.S.C. 102(b) as being anticipated by WO 99/14161. WO '161 is the PCT equivalent (written in German) of US 6576189 cited by applicant in IDS of 06 Dec 2004. Reference being made to US '189 therein is disclosed a UV (radiation) module having a movable confining element 24 (damming wall) which when in the lowered or closed position (fig. 2) acts to channel the water to the UV module.
- 4. Claims 22,25, 27-28 and 30, 33,35, 37-39 and 45 are rejected under 35 U.S.C. 102(b) as being anticipated by Schuerch (US 5564765).

 Schuerch '765 discloses plural UV radiation modules 16 oriented in a channel and supported therein by "suspenders" 24 which extend across the channel and engage and/or guide the modules into and/or out of the channel where they act upon the contaminated water in the channel. In figure 1, it is noted that there are gates 13 and 15 which act as a "confining element". The gates connect to the channel and the modules connect to the channel via said suspenders and as such they are connected to each other via the recited structure and are therefore considered "integral". In

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regard to the "spacer module" of claim 30, it is noted, as illustrated in fig. 1, there are three modules across and six modules deep. A "spacer module" reads on a regular module as a regular module maintains the space between the first and third modules in any row or column.

- 5. Claims 33,35, 37-39 and 45 are rejected under 35 U.S.C. 102(b) as being anticipated by Tipton (US 5208461). Tipton '461 discloses a UV module which includes a plurality of UV tubes mounted on a pivoted frame connected to the lid of the UV device. Further there is a confining element 40 which in the "closed position" acts to confine the liquid flow to the UV tubes 34. The tubes are supported at both ends.
- 6. Claims 22, 25-26, and 28 are rejected under 35 U.S.C. 102(b) as being anticipated by Maarschalkerweerd (US 5418370).

 Maarschalkerweerd (US 5418370) discloses a fig. 3 embodiment in which there are two adjacent modules with a common "confining element" 104 or a secondary confining element of 150.

Claim Rejections - 35 USC § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 8. Claims 6, 17 and 44 are is rejected under 35 U.S.C. 103(a) as being unpatentable over Wood '410 as applied to claims 1, 10 and 33 respectively above, and further in view of Maarschalkerweerd (US 4872980). The use of a "power supply" (actually a ballast) in the frame of the UV module as a wire reducing and control panel reduction measure (col. 4, lines 18-25) is taught by Maarschalkerweerd '980. To so employ this feature in Wood '410 would have been obvious to one of ordinary skill in the art.
- 9. Claim 7, (16,18), 28 and 45 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wood '410 as applied to claims 1, (10), 22 and 33 respectively above, and further in view of any one of Schuerch '765 or Weltz (US 5368826). The use of an "extraction system" or plural serially arranged UV modules are taught by either of Schuerch '765 or Weltz (US 5368826). To employ such features to facilitate module removal, cleaning reinsertion or to simply further treat the water for an added benefit would have been obvious to one of ordinary skill in the art.

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10. Claim 19 is rejected under 35 U.S.C. 103(a) as being unpatentable over Wood '410 as applied to claim 10 above, and further in view of Elner (US 4899056). Elner teaches the use of "blocking plates" 20 employed to stop the flow in the channel when the UV modules are being replaced and/or rejuvenated. This feature allows the restraint of untreated water to flow though the system which results in a better-sanitized effluent. To employ such a feature in Wood '410 during servicing of his module would have been obvious in view of Elner's ('056) teaching to employ such a feature.

Allowable Subject Matter

- 11. Claims 8,20, 29, 31 and 32 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 12. Claim 46 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Response to Arguments

13. Applicant's arguments with respect to all the pending claims have been considered but are most in view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas M. Lithgow whose telephone number is 571-272-1162. The examiner can normally be reached on Mon. -Fri..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on 571-272-1166.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thomas M. Lithgow Primary Examiner Art Unit 1724

TML